**This Page is Inserted by IFW Indexing and Scanning Operations and is not part of the Official Record**

## BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ BLACK BORDERS
- ☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
- ☐ FADED TEXT OR DRAWING
- ☐ BLURRED OR ILLEGIBLE TEXT OR DRAWING
- ☐ SKEWED/SLANTED IMAGES
- ☐ COLOR OR BLACK AND WHITE PHOTOGRAPHS
- ☐ GRAY SCALE DOCUMENTS
- ☐ LINES OR MARKS ON ORIGINAL DOCUMENT
- ☐ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY
- ☐ OTHER: _____

IMAGES ARE BEST AVAILABLE COPY.
As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.

| L Number | Hits | Search Text | DB | Time stamp |
|---|---|---|---|---|
| 1 | 24227 | 434/$.CCLS. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/17 22:48 |
| 2 | 8 | 434/$.CCLS. and (US-5346418-$.DID. OR US-6307956-$.DID. OR US-6330491-$.DID. OR US-6438451-$.DID. OR US-6057856-$.DID. OR US-6085256-$.DID. OR US-6421560-$.DID. OR US-4917647-$.DID. OR US-6231346-$.DID. OR US-5977951-$.DID. OR US-5973699-$.DID. OR US-5999167-$.DID. OR US-6466975-$.DID. OR US-4527249-$.DID. OR US-5681199-$.DID. OR US-6029042-$.DID. OR US-5058182-$.DID. OR US-6144366-$.DID. OR US-6292169-$.DID. OR US-6369796-$.DID. OR US-4529391-$.DID. OR US-5863204-$.DID. OR US-4245400-$.DID. OR US-6097927-$.DID. OR US-6259889-$.DID. OR US-6526669-$.DID. OR US-4775349-$.DID. OR US-4775350-$.DID. OR US-4302003-$.DID. OR US-5356035-$.DID. OR US-4909542-$.DID. OR US-5946807-$.DID. OR US-6271806-$.DID. OR US-4813685-$.DID. OR US-5186672-$.DID. OR US-5306153-$.DID. OR US-5765134-$.DID. OR US-5873521-$.DID. OR US-6009812-$.DID. OR US-5946665-$.DID. OR US-5953533-$.DID. OR US-6222547-$.DID. OR US-4837735-$.DID. OR US-5956039-$.DID. OR US-5966697-$.DID. OR US-6115712-$.DID. OR US-6134664-$.DID. OR US-6169545-$.DID. OR US-6182081-$.DID.) | USPAT | 2004/09/17 22:48 |
| 3 | 0 | 434/$.CCLS. and (cyber adj (communit$3 character$8)) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/17 22:50 |
| 5 | 518 | 434/$.CCLS. and (user$1 same mode same select$3) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/17 22:56 |
| 4 | 14 | 434/$.CCLS. and (((online same (learn$3 grow$3)) and (network$1 with server$1)) and @ad<=20000818) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/17 22:52 |

| | | | | |
|---|---|---|---|---|
| 8 | 401 | ((434/$.CCLS. and (US-5346418-$.DID. OR US-6307956-$.DID. OR US-6330491-$.DID. OR US-6438451-$.DID. OR US-6057856-$.DID. OR US-6085256-$.DID. OR US-6421560-$.DID. OR US-4917647-$.DID. OR US-6231346-$.DID. OR US-5977951-$.DID. OR US-5973699-$.DID. OR US-5999167-$.DID. OR US-6466975-$.DID. OR US-4527249-$.DID. OR US-5681199-$.DID. OR US-6029042-$.DID. OR US-5058182-$.DID. OR US-6144366-$.DID. OR US-6292169-$.DID. OR US-6369796-$.DID. OR US-4529391-$.DID. OR US-5863204-$.DID. OR US-4245400-$.DID. OR US-6097927-$.DID. OR US-6259889-$.DID. OR US-6526669-$.DID. OR US-4775349-$.DID. OR US-4775350-$.DID. OR US-4302003-$.DID. OR US-5356035-$.DID. OR US-4909542-$.DID. OR US-5946807-$.DID. OR US-6271806-$.DID. OR US-4813685-$.DID. OR US-5186672-$.DID. OR US-5306153-$.DID. OR US-5765134-$.DID. OR US-5873521-$.DID. OR US-6009812-$.DID. OR US-5946665-$.DID. OR US-5953533-$.DID. OR US-6222547-$.DID. OR US-4837735-$.DID. OR US-5956039-$.DID. OR US-5966697-$.DID. OR US-6115712-$.DID. OR US-6134664-$.DID. OR US-6169545-$.DID. OR US-6182081-$.DID.)) xor (434/$.CCLS. and (((online same (learn$3 grow$3)) and (network$1 with server$1)) and @ad<=20000818)) xor (434/$.CCLS. and (user$1 same mode same select$3)) xor (434/$.CCLS. and (shop$4 and ((online same (learn$3 grow$3)) and (network$1 with server$1)))) xor (434/$.CCLS. and ((((((question$3 quer$4 prompt$3) with (user$1 player$1)) same user$1 same mode same select$3) and (toy$1 gam$3)) and @ad<=20000818 ) and default$3))) and @ad<=20000818 | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/17 22:59 |
| 6 | 11 | 434/$.CCLS. and (shop$4 and ((online same (learn$3 grow$3)) and (network$1 with server$1))) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/17 22:58 |
| 7 | 9 | 434/$.CCLS. and ((((((question$3 quer$4 prompt$3) with (user$1 player$1)) same user$1 same mode same select$3) and (toy$1 gam$3)) and @ad<=20000818 ) and default$3) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/17 22:58 |

| | | | | |
|---|---|---|---|---|
| 9 | 28 | ((434/$.CCLS. and (US-5346418-$.DID. OR US-6307956-$.DID. OR US-6330491-$.DID. OR US-6438451-$.DID. OR US-6057856-$.DID. OR US-6085256-$.DID. OR US-6421560-$.DID. OR US-4917647-$.DID. OR US-6231346-$.DID. OR US-5977951-$.DID. OR US-5973699-$.DID. OR US-5999167-$.DID. OR US-6466975-$.DID. OR US-4527249-$.DID. OR US-5681199-$.DID. OR US-6029042-$.DID. OR US-5058182-$.DID. OR US-6144366-$.DID. OR US-6292169-$.DID. OR US-6369796-$.DID. OR US-4529391-$.DID. OR US-5863204-$.DID. OR US-4245400-$.DID. OR US-6097927-$.DID. OR US-6259889-$.DID. OR US-6526669-$.DID. OR US-4775349-$.DID. OR US-4775350-$.DID. OR US-4302003-$.DID. OR US-5356035-$.DID. OR US-4909542-$.DID. OR US-5946807-$.DID. OR US-6271806-$.DID. OR US-4813685-$.DID. OR US-5186672-$.DID. OR US-5306153-$.DID. OR US-5765134-$.DID. OR US-5873521-$.DID. OR US-6009812-$.DID. OR US-5946665-$.DID. OR US-5953533-$.DID. OR US-6222547-$.DID. OR US-4837735-$.DID. OR US-5956039-$.DID. OR US-5966697-$.DID. OR US-6115712-$.DID. OR US-6134664-$.DID. OR US-6169545-$.DID. OR US-6182081-$.DID.)) xor (434/$.CCLS. and (((online same (learn$3 grow$3)) and (network$1 with server$1)) and @ad<=20000818)) xor (434/$.CCLS. and (shop$4 and ((online same (learn$3 grow$3)) and (network$1 with server$1)))) xor (434/$.CCLS. and ((((((question$3 quer$4 prompt$3) with (user$1 player$1)) same user$1 same mode same select$3) and (toy$1 gam$3)) and @ad<=20000818 ) and default$3))) and @ad<=20000818 | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/17 22:59 |

| L Number | Hits | Search Text | DB | Time stamp |
|---|---|---|---|---|
| 1 | 245 | turn$3 adj on | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/17 14:00 |
| 2 | 659520 | power adj suppl$3 | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/17 14:00 |
| 3 | 21 | (turn$3 adj on) same (power adj suppl$3) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/17 14:01 |
| 4 | 16 | ((turn$3 adj on) same (power adj suppl$3)) and @ad<=20000818 | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/17 14:02 |
| 5 | 16 | ((turn$3 adj on) same (power adj suppl$3)) and @ad<=20000818 | USPAT; US-PGPUB; EPO; DERWENT; IBM_TDB | 2004/09/17 14:02 |
| 18 | 203608 | (mode modes) with select$3 | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/17 14:43 |
| 19 | 269225 | (user$1 character$1) with select$3 | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/17 14:45 |
| 20 | 62120 | (question$3 quer$4 prompt$3) with (user$1 player$1) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/17 14:45 |
| 21 | 285207 | (user$1 character$1 player$1) with select$3 | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/17 14:46 |
| 22 | 4154 | ((mode modes) with select$3) same default$3 | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/17 14:46 |
| 23 | 269225 | ((user$1 character$1) with select$3) same ((user$1 character$1 player$1) with select$3) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/17 14:47 |
| 24 | 21450 | ((question$3 quer$4 prompt$3) with (user$1 player$1)) same ((user$1 character$1 player$1) with select$3) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/17 14:47 |

| | | | | |
|---|---|---|---|---|
| 25 | 152 | (((mode modes) with select$3) same default$3) same (((question$3 quer$4 prompt$3) with (user$1 player$1)) same ((user$1 character$1 player$1) with select$3)) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/17 14:48 |
| 26 | 56 | ((((mode modes) with select$3) same default$3) same (((question$3 quer$4 prompt$3) with (user$1 player$1)) same ((user$1 character$1 player$1) with select$3))) and @ad<=20000818 | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/17 14:49 |
| 27 | 8 | (((((mode modes) with select$3) same default$3) same (((question$3 quer$4 prompt$3) with (user$1 player$1)) same ((user$1 character$1 player$1) with select$3))) and @ad<=20000818 ) and (toy$1 gam$3) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/17 14:49 |

| L Number | Hits | Search Text | DB | Time stamp |
|---|---|---|---|---|
| 1 | 245 | turn$3 adj on | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/17 14:00 |
| 2 | 659520 | power adj suppl$3 | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/17 14:00 |
| 3 | 21 | (turn$3 adj on) same (power adj suppl$3) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/17 14:01 |
| 4 | 16 | ((turn$3 adj on) same (power adj suppl$3)) and @ad<=20000818 | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/17 14:02 |
| 5 | 16 | ((turn$3 adj on) same (power adj suppl$3)) and @ad<=20000818 | USPAT; US-PGPUB; EPO; DERWENT; IBM_TDB | 2004/09/17 14:02 |
| 18 | 203608 | (mode modes) with select$3 | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/17 14:43 |
| 19 | 269225 | (user$1 character$1) with select$3 | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/17 14:45 |
| 20 | 62120 | (question$3 quer$4 prompt$3) with (user$1 player$1) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/17 14:45 |
| 21 | 285207 | (user$1 character$1 player$1) with select$3 | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/17 14:46 |
| 22 | 4154 | ((mode modes) with select$3) same default$3 | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/17 15:15 |
| 23 | 269225 | ((user$1 character$1) with select$3) same ((user$1 character$1 player$1) with select$3) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/17 14:47 |
| 24 | 21450 | ((question$3 quer$4 prompt$3) with (user$1 player$1)) same ((user$1 character$1 player$1) with select$3) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/17 14:47 |

| | | | | |
|---|---|---|---|---|
| 25 | 152 | (((mode modes) with select$3) same default$3) same (((question$3 quer$4 prompt$3) with (user$1 player$1)) same ((user$1 character$1 player$1) with select$3)) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/17 14:48 |
| 26 | 56 | ((((mode modes) with select$3) same default$3) same (((question$3 quer$4 prompt$3) with (user$1 player$1)) same ((user$1 character$1 player$1) with select$3))) and @ad<=20000818 | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/17 15:01 |
| 27 | 8 | (((((mode modes) with select$3) same default$3) same (((question$3 quer$4 prompt$3) with (user$1 player$1)) same ((user$1 character$1 player$1) with select$3))) and @ad<=20000818 ) and (toy$1 gam$3) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/17 15:00 |
| 28 | 8202 | ((question$3 quer$4 prompt$3) with (user$1 player$1)) and user$1 same mode same select$3 | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/17 15:00 |
| 29 | 2347 | ((question$3 quer$4 prompt$3) with (user$1 player$1)) same user$1 same mode same select$3 | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/17 15:00 |
| 30 | 424 | (((question$3 quer$4 prompt$3) with (user$1 player$1)) same user$1 same mode same select$3) and (toy$1 gam$3) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/17 15:01 |
| 31 | 209 | ((((question$3 quer$4 prompt$3) with (user$1 player$1)) same user$1 same mode same select$3) and (toy$1 gam$3)) and @ad<=20000818 | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/17 15:12 |
| 32 | 0 | (((((question$3 quer$4 prompt$3) with (user$1 player$1)) same user$1 same mode same select$3) and (toy$1 gam$3)) and @ad<=20000818 ) and LG-ELECTRONICS.as. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/17 15:12 |
| 33 | 0 | (((question$3 quer$4 prompt$3) with (user$1 player$1)) same user$1 same mode same select$3) and LG-ELECTRONICS.as. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/17 15:12 |
| 34 | 111 | (((((question$3 quer$4 prompt$3) with (user$1 player$1)) same user$1 same mode same select$3) and (toy$1 gam$3)) and @ad<=20000818 ) and default$3 | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/09/17 15:15 |

Google Web Images Groups News Froogle more »
"replaceable toy memories" Search Advanced Search Preferences

## Web

Tip: Try removing quotes from your search to get more results.

Your search - **"replaceable toy memories"** - did not match any documents.

Suggestions:

- Make sure all words are spelled correctly.
- Try different keywords.
- Try more general keywords.

Also, you can try Google Answers for expert help with your search.

Sponsored Links

Online Toy Store MyToyBox
1000's of kids toys to choose from
100% Secure - BBB Member
www.mytoybox.com

See your message here...



©2004 Google

Google Web Images Groups News Froogle more »

"replacing toy memories" Search Advanced Search Preferences

## Web

Tip: Try removing quotes from your search to get more results.

Your search - **"replacing toy memories"** - did not match any documents.

Suggestions:

- Make sure all words are spelled correctly.
- Try different keywords.
- Try more general keywords.

Also, you can try Google Answers for expert help with your search.

Google Home - Advertising Programs - Business Solutions - About Google

©2004 Google

Google

Web Images Groups News Froogle more »

"toy memories" Search Advanced Search Preferences

## Web

Results **1** - **10** of about **808** for **"toy memories"**. (**0.36** seconds)

### TV TOY MEMORIES

... FROM. THERE WOULD NOT BE ANY TOYS. Don't Forget The Most Important Thing. TV **TOY MEMORIES**. FOR. GEORGE SEATON (Screenwriter) WILLIAM FRAWLEY (Actor).
www.tvtoymemories.com/ - 18k - Cached - Similar pages

### The Christmas **Toy Memories** Tree

You are here: About>Parenting & Family>Parenting of K-6 Children> Holidays and Seasons> Winter> The Christmas **Toy Memories** Tree. ... The Christmas **Toy Memories** Tree. ...
childparenting.about.com/cs/holidays/a/toytree.htm - 18k - Cached - Similar pages

### The Christmas **Toy Memories** Tree

... Parenting of K-6 Children The Christmas **Toy Memories** Tree. ... The Christmas **Toy Memories** Tree Make memories for a lifetime with the Christmas **Toy Memories** tree. ...
childparenting.about.com/b/a/051473.htm - 20k - Cached - Similar pages
[ More results from childparenting.about.com ]

### BBC - Coventry and Warwickshire Features - **Toy memories**

TUESDAY 31st August 2004 Text only. ...
www.bbc.co.uk/coventry/features/ festivals/christmas-2003/**toy-memories**.shtml - 41k - Cached - Similar pages

### USATODAY.com - 'Buffy' bio, a new 'Race; **toy memories**

... LowerMyBills.com - More for you. Less for them.LowerMyBills.com - More for you. Less for them. 'Buffy' bio, a new 'Race; **toy memories** flick clicks. ...
www.usatoday.com/life/columnist/ hipclicks/2003-05-06-hip-clicks_x.htm - 52k - Cached - Similar pages

### Antique-Centrals Collectible Television and Movie Memorabilia Page

... TV **Toy Memories** TV **Toy Memories** has a wide selection of TV related toys, advertising memorabilia, coloring books, paper dolls & cereal boxes, from the 1950's ...
www.antique-central.com/movie.html - 16k - Cached - Similar pages

### TV **Toy Memories**

TV **Toy**, **Memories**, You need Java to see this applet. cerealboxman@Yahoo.com, RON DAVISON, WEBSITE SEARCH, We are sellers of wonderful ...
tvtoymemories.com/FRONT_PAGE.html - 55k - Cached - Similar pages
[ More results from tvtoymemories.com ]

### Sports : Shopping links on All Links Directory

... TV **Toy Memories** - TV **Toy Memories** has a wide selection of TV related items & SPORTS related collectibles from the 1950's - 1990's. ...
www.all-linksite.com/Sports/Shopping/more-2.html - 63k - Cached - Similar pages

### Collectibles

Collectibles. Collectibles. Home Page | Animals_3 | Antiques_19 | Art Galleries_19 | Art Glass_3 | Artist Groups_7 | Artist Supplies ...
www.lacewing.com/links/collectibles.html - 16k - Cached - Similar pages

Sponsored Links

Online **Toy** Store MyToyBox
1000's of kids toys to choose from
100% Secure - BBB Member
www.mytoybox.com

See your message here...

Imparare l'inglese,il francese,lo spagnolo,il tedesco-GRATIS!
... Tractor Show (USA + International ) Website for toy tractor collectors and tractor history enthusiasts Activity : RETAILER TV **Toy Memories** (USA + International ...
www.eurocosm.com/Application/ Directory/links11.asp?tcode=c225 - 23k -
Cached - Similar pages

Goooooooooogle ▶
Result Page: 1 2 3 4 5 6 7 8 9 10 **Next**

Free! Get the Google Toolbar. Download Now - About Toolbar




"toy memories" Search

Search within results | Language Tools | Search Tips | Dissatisfied? Help us improve

Google Home - Advertising Programs - Business Solutions - About Google

©2004 Google

PORTAL
US Patent & Trademark Office

Subscribe (Full Service) Register (Limited Service, Free) Login

Search: The ACM Digital Library The Guide

"replacing memories"

THE ACM DIGITAL LIBRARY

Feedback Report a problem Satisfaction survey

Terms used **replacing memories** Found **23** of **142,346**

Sort results by relevance

Display results expanded form

Save results to a Binder

Search Tips

Open results in a new window

Try an Advanced Search

Try this search in The ACM Guide

Results 1 - 20 of 23 Result page: **1** 2 next

Relevance scale

**1** Drowsy caches: simple techniques for reducing leakage power

Krisztián Flautner, Nam Sung Kim, Steve Martin, David Blaauw, Trevor Mudge

May 2002 **ACM SIGARCH Computer Architecture News**, Volume 30 Issue 2

Full text available: pdf(1.00 MB) Publisher Site Additional Information: full citation, abstract, references, citings, index terms

On-chip caches represent a sizable fraction of the total power consumption of microprocessors. Although large caches can significantly improve performance, they have the potential to increase power consumption. As feature sizes shrink, the dominant component of this power loss will be leakage. However, during a fixed period of time the activity in a cache is only centered on a small subset of the lines. This behavior can be exploited to cut the leakage power of large caches by putting the cold c ...

**2** An automated BIST approach for general sequential logic synthesis

C. E. Stroud

June 1988 **Proceedings of the 25th ACM/IEEE conference on Design automation**

Full text available: pdf(750.11 KB) Additional Information: full citation, abstract, references, citings, index terms

An automated Built-In Self-Test (BIST) technique for general sequential logic is described. This BIST approach has been incorporated in a behavioral model synthesis system providing automated implementation of BIST in Very Large Scale Integration (VLSI) devices as well as Programmable Logic used at all levels of testing from device testing through system diagnostics. The BIST approach is based on selective replacement of existing system memory elements with BIST flip-flop cells that are con ...

**3** Protection in flexible operating system architectures

Christophe Rippert

October 2003 **ACM SIGOPS Operating Systems Review**, Volume 37 Issue 4

Full text available: pdf(751.23 KB) Additional Information: full citation, abstract, references

This paper presents our work concerning flexibility and protection in operating system kernels. In most existing operating systems, security is enforced at the price of flexibility by imposing protection models on the system programmer when building his system. We prove that flexibility can be preserved by separating the management of the protection policy from the tools used to enforce it. We present the secure software framework we have implemented in the THINK architecture to manage ...

4 New directions in traffic measurement and accounting: Focusing on the elephants, ignoring the mice

Cristian Estan, George Varghese

August 2003 **ACM Transactions on Computer Systems (TOCS)**, Volume 21 Issue 3

Full text available: pdf(1.03 MB) Additional Information: full citation, abstract, references, index terms, review

Accurate network traffic measurement is required for accounting, bandwidth provisioning and detecting DoS attacks. These applications see the traffic as a collection of flows they need to measure. As link speeds and the number of flows increase, keeping a counter for each flow is too expensive (using SRAM) or slow (using DRAM). The current state-of-the-art methods (Cisco's sampled NetFlow), which count periodically sampled packets are slow, inaccurate and resource-intensive. Previous work showed ...

**Keywords**: Network traffic measurement, identifying large flows, on-line algorithms, scalability, usage based accounting

5 User-controllable coherence for high performance shared memory multiprocessors

Collin McCurdy, Charles Fischer

June 2003 **ACM SIGPLAN Notices , Proceedings of the ninth ACM SIGPLAN symposium on Principles and practice of parallel programming**, Volume 38 Issue 10

Full text available: pdf(210.24 KB) Additional Information: full citation, abstract, references, index terms

In programming high performance applications, shared address-space platforms are preferable for fine-grained computation, while distributed address-space platforms are more suitable for coarse-grained computation. However, currently only distributed address-space systems scale beyond the low hundreds of processors. In this paper we introduce a hybrid architecture that allows users to trade off local memory usage for coherence communication, making possible larger-scale shared memory architecture ...

**Keywords**: distributed memory architectures, irregular computation, parallel computation, shared memory architectures

6 Superscalar design: Three extensions to register integration

Vlad Petric, Anne Bracy, Amir Roth

November 2002 **Proceedings of the 35th annual ACM/IEEE international symposium on Microarchitecture**

Full text available: pdf(1.37 MB) Additional Information: full citation, abstract, references, index terms

Publisher Site

Register integration (or just integration) is a register renaming discipline that implements instruction reuse via physical register sharing. Initially developed to perform squash reuse, the integration mechanism can exploit more reuse scenarios. Here, we describe three extensions to the original design that expand its applicability and boost its performance impact. First, we extend squash reuse to general reuse. Whereas squash reuse maintains the concept of an instruction instance "owning" its ...

7 High performance file system for supercomputing environment

H. Nishino, S. Naka, K. Ikumi, W. Leslie

August 1989 **Proceedings of the 1989 ACM/IEEE conference on Supercomputing**

Full text available: pdf(915.21 KB) Additional Information: full citation, abstract, references, index terms

SUPER-UX is a high performance UNIX operating system for NEC SX-3/SX-X supercomputer and has many enhanced facilities to make available the maximum SX-3/SX-X computing

power (peek speed of 22GFLOPS) to users. This paper presents the SUPER-UX file system, a strong point of SUPER-UX, which is based on the standard UNIX file system to satisfy scientific computing environment requirements for I/O performance and facilities.

**8** Eliminating redundant object code

Jack W. Davidson, Christopher W. Fraser

January 1982 **Proceedings of the 9th ACM SIGPLAN-SIGACT symposium on Principles of programming languages**

Full text available: pdf(422.07 KB) Additional Information: full citation, abstract, references, citings

Compilers usually eliminate common subexpressions in intermediate code, not object code. This reduces machine-dependence but misses the machine-dependent common subexpressions introduced by the last phases of code expansion. This paper describes a machine-independent procedure for eliminating machine-specific common subexpressions. It also identifies dead variables, defines windows for a companion peephole optimizer, and forms the basis of a retargetable register allocator. Its techniques for ha ...

**9** Description-driven code generation using attribute grammars

Mahadevan Ganapathi, Charles N. Fischer

January 1982 **Proceedings of the 9th ACM SIGPLAN-SIGACT symposium on Principles of programming languages**

Full text available: pdf(988.59 KB) Additional Information: full citation, abstract, references, citings

The instruction-set of a target architecture is represented as a set of attribute-grammar productions. A code generator is obtained automatically for any compiler using attributed parsing techniques. A compiler built on this model can automatically perform most popular machine-dependent optimizations, including peephole optimizations. The code generator is also easily retargetable to different machine architectures.

**10** The page replacement algorithms for PRIME 400, DEC VAX-11/780, DEC TOPS-10, IBM OS/370 MVS, IBM VM/370

Candace J. McCall

April 1979 **Proceedings of the 17th annual Southeast regional conference**

Full text available: pdf(421.06 KB) Additional Information: full citation, abstract, references

Page replacement algorithms are one of the most important aspects of memory management schemes. This paper presents the page replacement algorithms of the following systems: PRIME 400, DEC VAX-11/780, DEC TOPS-10, IBM OS/370 MVS, and IBM VM/370. Illustrations are provided for all systems.

**Keywords**: Fault, global, least recently used, local, memory management, page, page replacement algorithm, segment, virtual memory, working set

**11** A 50 Mbit/s iterative turbo-decoder

F. Viglione, G. Masera, G. Piccinini, M. Ruo Roch, M. Zamboni

January 2000 **Proceedings of the conference on Design, automation and test in Europe**

Full text available: pdf(69.06 KB) Additional Information: full citation, references, citings, index terms

Publisher Site

**12** Linux and the Alpha, How to Make Your Applications Fly, Part 2

David Mosberger

November 1997 **Linux Journal**

Full text available: html(31.16 KB) Additional Information: full citation, abstract, references, index terms

Linux and the Alpha, How to Make Your Applications Fly, Part 2

13 Exploiting positive equality and partial non-consistency in the formal verification of pipelined microprocessors

Miroslav N. Velev, Randal E. Bryant

June 1999 **Proceedings of the 36th ACM/IEEE conference on Design automation**

Full text available: pdf(39.23 KB) Additional Information: full citation, references, citings, index terms

14 Managing server load in global memory systems

Geoffrey M. Voelker, Hervé A. Jamrozik, Mary K. Vernon, Henry M. Levy, Edward D. Lazowska

June 1997 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1997 ACM SIGMETRICS international conference on Measurement and modeling of computer systems**, Volume 25 Issue 1

Full text available: pdf(2.26 MB) Additional Information: full citation, abstract, references, citings, index terms

New high-speed switched networks have reduced the latency of network page transfers significantly below that of local disk. This trend has led to the development of systems that use network-wide memory, or *global* memory, as a cache for virtual memory pages or file blocks. A crucial issue in the implementation of these global memory systems is the selection of the target nodes to receive replaced pages. Current systems use various forms of an approximate global LRU algorithm for making the ...

15 Decoupled hardware support for distributed shared memory

Steven K. Reinhardt, Robert W. Pfile, David A. Wood

May 1996 **ACM SIGARCH Computer Architecture News , Proceedings of the 23rd annual international symposium on Computer architecture**, Volume 24 Issue 2

Full text available: pdf(1.47 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper investigates hardware support for fine-grain distributed shared memory (DSM) in networks of workstations. To reduce design time and implementation cost relative to dedicated DSM systems, we decouple the functional hardware components of DSM support, allowing greater use of off-the-shelf devices.We present two decoupled systems, Typhoon-0 and Typhoon-1. Typhoon-0 uses an off-the-shelf protocol processor and network interface; a custom access control device is the only DSM-specific hard ...

16 The interaction of parallel and sequential workloads on a network of workstations

Remzi H. Arpaci, Andrea C. Dusseau, Amin M. Vahdat, Lok T. Liu, Thomas E. Anderson, David A. Patterson

May 1995 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1995 ACM SIGMETRICS joint international conference on Measurement and modeling of computer systems**, Volume 23 Issue 1

Full text available: pdf(1.36 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper examines the plausibility of using a network of workstations (NOW) for a mixture of parallel and sequential jobs. Through simulations, our study examines issues that arise when combining these two workloads on a single platform. Starting from a dedicated NOW just for parallel programs, we incrementally relax uniprogramming restrictions until we have a multi-programmed, multi-user NOW for both interactive sequential users and parallel programs. We show that a number of issues associate ...

**17** Improving the performance of SML garbage collection using application-specific virtual memory management

Eric Cooper, Scott Nettles, Indira Subramanian

January 1992 **ACM SIGPLAN Lisp Pointers , Proceedings of the 1992 ACM conference on LISP and functional programming**, Volume V Issue 1

Full text available: pdf(925.92 KB) Additional Information: full citation, abstract, references, citings, index terms

We improved the performance of garbage collection in the standard ML of New Jersey system by using the virtual memory facilities provided by the Mach kernel. We took advantage of Mach's support for large sparse address spaces and user-defined paging servers. We decreased the elapsed time for realistic application by as much as a factor of 4.

**18** An equational language for data-parallelism

Pushpa Rao, Clifford Walinsky

July 1993 **ACM SIGPLAN Notices , Proceedings of the fourth ACM SIGPLAN symposium on Principles and practice of parallel programming**, Volume 28 Issue 7

Full text available: pdf(640.82 KB) Additional Information: full citation, abstract, references, citings, index terms

Data-parallelism provides a clean conceptual framework for parallel programming. We are developing two programming languages: a high level equational language, called EL*, and a low-level implementation language. Both languages exploit data-parallelism instead of control-parallelism. EL* is a declarative data-parallel language. EL* programs are high-level equational specifications that use extensive pattern-matching and recursio ...

**19** Query evaluation techniques for large databases

Goetz Graefe

June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2

Full text available: pdf(9.37 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as today's database systems manipulate simple records, query-processi ...

**Keywords**: complex query evaluation plans, dynamic query evaluation plans, extensible database systems, iterators, object-oriented database systems, operator model of parallelization, parallel algorithms, relational database systems, set-matching algorithms, sort-hash duality

**20** Processor coupling: integrating compile time and runtime scheduling for parallelism

Stephem W. Keckler, William J. Dally

April 1992 **ACM SIGARCH Computer Architecture News , Proceedings of the 19th annual international symposium on Computer architecture**, Volume 20 Issue 2

Full text available: pdf(1.32 MB) Additional Information: full citation, abstract, references, citings, index terms

The technology to implement a single-chip node composed of 4 high-performance floating-point ALUs will be available by 1995. This paper presents processor coupling, a mechanism for controlling multiple ALUs to exploit both instruction-level and inter-thread parallelism, by using compile time and runtime scheduling. The compiler statically schedules individual

threads to discover available intra-thread instruction-level parallelism. The runtime scheduling mechanism interleaves threads, explo ...

Results 1 - 20 of 23 Result page: **1** 2 next

The ACM Portal is published by the Association for Computing Machinery. Copyright © 2004 ACM, Inc.
Terms of Usage Privacy Policy Code of Ethics Contact Us

Useful downloads: Adobe Acrobat QuickTime Windows Media Player Real Player

ACM PORTAL
US Patent & Trademark Office

Subscribe (Full Service) Register (Limited Service, Free) Login

Search: The ACM Digital Library The Guide

"replacing toy memories"

Search

## Nothing Found

Your search for **"replacing toy memories"** did not return any results.

You may want to try an Advanced Search for additional options.

Please review the Quick Tips below or for more information see the Search Tips.

### Quick Tips

- Enter your search terms in lower case with a space between the terms.

  ```
  sales offices
  ```

  You can also enter a full question or concept in plain language.

  ```
  Where are the sales offices?
  ```

- Capitalize proper nouns to search for specific people, places, or products.

  ```
  John Colter, Netscape Navigator
  ```

- Enclose a phrase in double quotes to search for that exact phrase.

  ```
  "museum of natural history" "museum of modern art"
  ```

- Narrow your searches by using a + if a search term must appear on a page.

  ```
  museum +art
  ```

- Exclude pages by using a - if a search term must not appear on a page.

  ```
  museum -Paris
  ```

Combine these techniques to create a specific search query. The better your description of the information you want, the more relevant your results will be.

```
museum +"natural history" dinosaur -Chicago
```

The ACM Portal is published by the Association for Computing Machinery. Copyright © 2004 ACM, Inc.
Terms of Usage Privacy Policy Code of Ethics Contact Us

Useful downloads: Adobe Acrobat QuickTime Windows Media Player Real Player

ACM PORTAL
US Patent & Trademark Office
Subscribe (Full Service) Register (Limited Service, Free) Login
Search: The ACM Digital Library The Guide
"toy memories"
Search

## Nothing Found

Your search for **"toy memories"** did not return any results.

You may want to try an Advanced Search for additional options.

Please review the Quick Tips below or for more information see the Search Tips.

### Quick Tips

- Enter your search terms in lower case with a space between the terms.

```
sales offices
```

  You can also enter a full question or concept in plain language.

```
Where are the sales offices?
```

- Capitalize proper nouns to search for specific people, places, or products.

```
John Colter, Netscape Navigator
```

- Enclose a phrase in double quotes to search for that exact phrase.

```
"museum of natural history" "museum of modern art"
```

- Narrow your searches by using a + if a search term must appear on a page.

```
museum +art
```

- Exclude pages by using a - if a search term must not appear on a page.

```
museum -Paris
```

Combine these techniques to create a specific search query. The better your description of the information you want, the more relevant your results will be.

```
museum +"natural history" dinosaur -Chicago
```

The ACM Portal is published by the Association for Computing Machinery. Copyright © 2004 ACM, Inc.
Terms of Usage Privacy Policy Code of Ethics Contact Us

Useful downloads: Adobe Acrobat QuickTime Windows Media Player Real Player

IEEE HOME | SEARCH IEEE | SHOP | WEB ACCOUNT | CONTACT IEEE

IEEE

Membership Publications/Services Standards Conferences Careers/Jobs

IEEE Xplore RELEASE 1.8

Welcome
United States Patent and Trademark Office

» Se

Help FAQ Terms IEEE Peer Review

Quick Links

Welcome to IEEE Xplore

- Home
- What Can I Access?
- Log-out

Tables of Contents

- Journals & Magazines
- Conference Proceedings
- Standards

Search

- By Author
- Basic
- Advanced

Member Services

- Join IEEE
- Establish IEEE Web Account
- Access the IEEE Member Digital Library

IEEE Enterprise

- Access the IEEE Enterprise File Cabinet

Print Format

Your search matched **5** of **1071730** documents.
A maximum of **500** results are displayed, **15** to a page, sorted by **Relevance Descending** order.

**Refine This Search:**
You may refine your search by editing the current search expression or enter new one in the text box.

toy<and>memories Search

Check to search within this result set

**Results Key:**
**JNL** = Journal or Magazine **CNF** = Conference **STD** = Standard

---

1 **A trie-based algorithm for IP lookup problem**
*Yilmaz, P.A.; Belenkiy, A.; Uzun, N.; Gogate, N.; Toy, M.;*
Global Telecommunications Conference, 2000. GLOBECOM '00. IEEE , Volume 1 , 27 Nov.-1 Dec. 2000
Pages:593 - 598 vol.1

[Abstract] [PDF Full-Text (548 KB)] **IEEE CNF**

---

2 **SPEC CPU2000: measuring CPU performance in the New Millennium**
*Henning, J.L.;*
Computer , Volume: 33 , Issue: 7 , July 2000
Pages:28 - 35

[Abstract] [PDF Full-Text (200 KB)] **IEEE JNL**

---

3 **A proposed real-time ADA test**
*Newport, J.R.;*
Aerospace and Electronics Conference, 1994. NAECON 1994., Proceedings of IEEE 1994 National , 23-27 May 1994
Pages:932 - 936 vol.2

[Abstract] [PDF Full-Text (256 KB)] **IEEE CNF**

---

4 **A multi-paradigm object oriented parallel environment**
*Hamelin, F.; Jezequel, J.-M.; Priol, T.;*
Parallel Processing Symposium, 1994. Proceedings., Eighth International , 26 April 1994
Pages:182 - 186

[Abstract] [PDF Full-Text (436 KB)] **IEEE CNF**

5 **Towards connectionist rule-based systems**
*Samad, T.;*
Neural Networks, 1988., IEEE International Conference on , 24-27 July 1988
Pages:525 - 532 vol.2

[Abstract] [PDF Full-Text (412 KB)] **IEEE CNF**

Home | Log-out | Journals | Conference Proceedings | Standards | Search by Author | Basic Search | Advanced Search | Join IEEE | Web Account | New this week | OPAC Linking Information | Your Feedback | Technical Support | Email Alerting | No Robots Please | Release Notes | IEEE Online Publications | Help | FAQ | Terms | Back to Top

Copyright © 2004 IEEE — All rights reserved

IEEE HOME | SEARCH IEEE | SHOP | WEB ACCOUNT | CONTACT IEEE

IEEE

Membership Publications/Services Standards Conferences Careers/Jobs

IEEE Xplore RELEASE 1.8

Welcome
United States Patent and Trademark Office

Help FAQ Terms IEEE Peer Review Quick Links

» Se

Welcome to IEEE Xplore
- Home
- What Can I Access?
- Log-out

Tables of Contents
- Journals & Magazines
- Conference Proceedings
- Standards

Search
- By Author
- Basic
- Advanced

Member Services
- Join IEEE
- Establish IEEE Web Account
- Access the IEEE Member Digital Library

IEEE Enterprise
- Access the IEEE Enterprise File Cabinet

Your search matched **0** of **1071730** documents.
A maximum of **500** results are displayed, **15** to a page, sorted by **Relevance Descending** order.

**Refine This Search:**
You may refine your search by editing the current search expression or enter new one in the text box.

toy<and>memories<and>replacing Search

☐ Check to search within this result set

**Results Key:**
**JNL** = Journal or Magazine **CNF** = Conference **STD** = Standard

---

**Results:**
**No documents matched your query.**

Print Format

Home | Log-out | Journals | Conference Proceedings | Standards | Search by Author | Basic Search | Advanced Search | Join IEEE | Web Account | New this week | OPAC Linking Information | Your Feedback | Technical Support | Email Alerting | No Robots Please | Release Notes | IEEE Online Publications | Help | FAQ | Terms | Back to Top

Copyright © 2004 IEEE — All rights reserved

PORTAL
US Patent & Trademark Office

Subscribe (Full Service) Register (Limited Service, Free) Login

Search: The ACM Digital Library The Guide

"agents that reduce work and information overload"

Search

THE ACM DIGITAL LIBRARY

Feedback Report a problem Satisfaction survey

Terms used and **agents that reduce work information overload** Found **119** of **142,346**

Sort results by relevance

Display results expanded form

Save results to a Binder

Search Tips

Open results in a new window

Try an Advanced Search

Try this search in The ACM Guide

Results 1 - 20 of 119 Result page: **1** 2 3 4 5 6 next

Relevance scale

**1** Agents that reduce work and information overload

Pattie Maes

July 1994 **Communications of the ACM**, Volume 37 Issue 7

Full text available: pdf(4.46 MB) Additional Information: full citation, references, citings, index terms

**2** If not now, when?: the effects of interruption at different moments within task execution

Piotr D. Adamczyk, Brian P. Bailey

April 2004 **Proceedings of the 2004 conference on Human factors in computing systems**

Full text available: pdf(548.74 KB) Additional Information: full citation, abstract, references, index terms

User attention is a scarce resource, and users are susceptible to interruption overload. Systems do not reason about the effects of interrupting a user during a task sequence. In this study, we measure effects of interrupting a user at different moments within task execution in terms of task performance, emotional state, and social attribution. Task models were developed using event perception techniques, and the resulting models were used to identify interruption timings based on a user's predi ...

**Keywords**: affective state, attention, interruption, task models

**3** Implicit feedback for inferring user preference: a bibliography

Diane Kelly, Jaime Teevan

September 2003 **ACM SIGIR Forum**, Volume 37 Issue 2

Full text available: pdf(1.47 MB) Additional Information: full citation, references

**4** Developing multiagent systems: The Gaia methodology

Franco Zambonelli, Nicholas R. Jennings, Michael Wooldridge

July 2003 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 12 Issue 3

Full text available: pdf(346.49 KB) Additional Information: full citation, abstract, references, index terms

Systems composed of interacting autonomous agents offer a promising software engineering approach for developing applications in complex domains. However, this

*multiagent system* paradigm introduces a number of new abstractions and design/development issues when compared with more traditional approaches to software development. Accordingly, new analysis and design methodologies, as well as new tools, are needed to effectively engineer such systems. Against this background, the contribution ...

**Keywords**: Multiagent systems, agent-oriented software engineering, analysis and design methodologies, distributed systems, software architectures

5 A classification of product comparison agents

Yun Wan, Satya Menon, Arkalgud Ramaprasad

September 2003 **Proceedings of the 5th international conference on Electronic commerce**

Full text available: pdf(164.18 KB) Additional Information: full citation, abstract, references

Over the last decade of rise and growth of e-commerce, a large number and variety of electronic comparison-shopping agents have emerged on the Web, but little research has been done on classifying them. In this paper, we propose a conceptual schema for categorizing comparison-shopping agents into three groups: differentiation agents, evaluation agents and preference agents. We describe and analyze each category in detail. We suggest that comparison-shopping agents can be regarded as a species in ...

**Keywords**: Internet ecosystem, classification, comparison-shopping, derivative agent, electronic agent, product comparison agent

6 Adaptation/load balancing: Agent memory and adaptation in multi-agent systems

Kristina Lerman, Aram Galstyan

July 2003 **Proceedings of the second international joint conference on Autonomous agents and multiagent systems**

Full text available: pdf(277.70 KB) Additional Information: full citation, abstract, references, index terms

We describe a general mechanism for adaptation in multi-agent systems in which agents modify their behavior based on their memory of past events. These behavior changes can be elicited by environmental dynamics or arise as response to the actions of other agents. The agents use memory to estimate the global state of the system from individual observations and adjust their actions accordingly. We also present a mathematical model of the dynamics of collective behavior in such systems and apply it ...

**Keywords**: analysis, coalition formation, multi-agent systems

7 Making the user interface disappear: the reactive room

Jeremy R. Cooperstock

November 1995 **Proceedings of the 1995 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: pdf(197.12 KB) Additional Information: full citation, abstract, references, index terms

Ubiquitous computing is an attempt to simplify human-computer interaction by embedding computational power in everyday objects. The resulting technology is distributed yet invisible. This approach offers an appealing alternative to current complex user interfaces. However, invisible technology by itself may be unacceptable to most users. If ubiquitous computing is to gain acceptance, it must provide a seamless manual override mechanism and meaningful diagnostics.Our implementation of a computer- ...

8 Streams and time series: Bursty and hierarchical structure in streams

Jon Kleinberg
July 2002 **Proceedings of the eighth ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available: pdf(1.21 MB) Additional Information: full citation, abstract, references, citings, index terms

A fundamental problem in text data mining is to extract meaningful structure from document streams that arrive continuously over time. E-mail and news articles are two natural examples of such streams, each characterized by topics that appear, grow in intensity for a period of time, and then fade away. The published literature in a particular research field can be seen to exhibit similar phenomena over a much longer time scale. Underlying much of the text mining work in this area is the followin ...

**9** Workshops: Subtle expressivity for characters and robots
Noriko Suzuki, Christoph Bartneck
April 2003 **CHI '03 extended abstracts on Human factors in computing systems**

Full text available: pdf(135.72 KB) Additional Information: full citation, abstract, references, index terms

People, both consciously and unconsciously, use subtle expressions to indirectly communicate their emotions and intentions through variations of the gaze direction, voice tone and gesture speed. People also perceive changes in the internal states of others from subtle changes in their expressivities while interacting with them. Subtle expressivity plays the supporting part to the leading role of explicit expressivity, such as contents of speech or category of facial expressions. However, subtle ...

**10** Digital sociability: Designing social presence of social actors in human computer interaction
Kwan Min Lee, Clifford Nass
April 2003 **Proceedings of the conference on Human factors in computing systems**

Full text available: pdf(295.50 KB) Additional Information: full citation, abstract, references, citings, index terms

This study examines the interaction effect between user factors and media factors on feelings of social presence which are critical in the design of virtual reality systems and human computer interfaces. Both Experiment 1 and Experiment 2 show that matching synthesized voice personality to user personality positively affects users' (especially extrovert users') feelings of social presence. Experiment 2 also reveals that users feel a stronger sense of social presence when the personality of synth ...

**Keywords**: computers are social actors, consistency-attraction, media equation, presence, similarity-attraction, social presence, telepresence

**11** Session 5: novel interaction: MAUI: a multimodal affective user interface
Christine L. Lisetti, Fatma Nasoz
December 2002 **Proceedings of the tenth ACM international conference on Multimedia**

Full text available: pdf(377.18 KB) Additional Information: full citation, abstract, references, citings

Human intelligence is being increasingly redefined to include the all-encompassing effect of emotions upon what used to be considered 'pure reason'. With the recent progress of research in computer vision, speech/prosody recognition, and bio-feedback, real-time recognition of affect will enhance human-computer interaction considerably, as well as assist further progress in the development of new emotion theories.In this article, we describe how affect, moods and emotions closely interact with co ...

**Keywords**: affect recognition, emotions, intelligent interfaces, interface agent

**12** Session 3: interfacing stored media I: In-home access to multimedia content
Dario Teixeira, Yassine Faihe
December 2002 **Proceedings of the tenth ACM international conference on Multimedia**

Full text available: pdf(194.34 KB) Additional Information: full citation, abstract, references

This paper discusses the problem of content overload in the home environment. We describe the various domains where the problem manifests itself, and we analyse which user activities could benefit from software assistance. In particular, we focus on the problem of searching for information, and we introduce the concept of *Conversational Search* as the means to tackle it. We also introduce a framework to test several heuristics related to Conversational Search, and show how using a model of ...

**Keywords**: browsing assistants, content overload, conversational interfaces, conversational search, digital photography, home environments, multimedia, user modelling

**13** Attentive user interfaces: Attentive agents
Paul P. Maglio, Christopher S. Campbell
March 2003 **Communications of the ACM**, Volume 46 Issue 3

Full text available: pdf(2.98 MB) html(27.03 KB) Additional Information: full citation, abstract, references, index terms

*In the anticipated symbiotic partnership, men will set the goals, formulate the hypotheses, determine the criteria, and perform the evaluations. Computing machines will do the routinizable work that must be done to prepare the way for insights and decisions in technical and scientific thinking.*<br>J.C.R. Licklider, 1960

**14** Student posters: Understanding the use and utility of anthropomorphic interface agents
Jun Xiao
March 2001 **CHI '01 extended abstracts on Human factors in computing systems**

Full text available: pdf(226.72 KB) Additional Information: full citation, abstract, references, index terms

We are exploring the use of anthropomorphic agents in user interfaces in order to understand their potential and utility. Initially, we are conducting a series of Wizard of Oz experiments in order to factor out competence as an issue, and to vary particular aspects of an anthropomorphic agent's presentation.

**Keywords**: anthropomorphism, empirical study, intelligent interfaces, personification, software agent

**15** Interactive posters: Presenting spoken advice: information pull or push?
Geert de Haan
April 2000 **CHI '00 extended abstracts on Human factors in computing systems**

Full text available: pdf(172.50 KB) Additional Information: full citation, abstract, references

This paper describes a usability experiment concerning the intrusive nature of spoken-out advice messages in situations that closely resemble conferences, generated by an intelligent agent system (COMRIS) on the basis of context information and personal interest profiles. The results indicate that pushing spoken information may not be appropriate and information-pull is preferred.

**Keywords**: auditory I/O, intelligent systems, mobile computing, speech and voice, usability evaluation, usability testing

**16** Demonstration: persuasive agents and architectures: Agent-based support for human/agent teams

Terry R. Payne, Terri L. Lenox, Susan Hahn, Katia Sycara, Michael Lewis

April 2000 **CHI '00 extended abstracts on Human factors in computing systems**

Full text available: pdf(207.51 KB) Additional Information: full citation, abstract, references

In this paper, we present an interface agent, *MokSAF,* which facilitates time-critical team-planning tasks for teams of both humans and heterogeneous software agents. This agent assists in the formation of teams of humans (via other MokSAF agents) and *task* agents that can autonomously perform team subtasks. It provides a suitable interaction mechanism to instruct the various task agents in the team; and, by monitoring the human's progress, reallocate or modify the sub-tasks if the h ...

**Keywords**: functional substitutability, interface agents, multi-agent systems, team coordination

**17** Accepted Posters: Power tools and composite tools: integrating automation with direct manipulation

John M. Daughtry, Robert St. Amant

January 2003 **Proceedings of the 8th international conference on Intelligent user interfaces**

Full text available: pdf(206.56 KB) Additional Information: full citation, abstract, references, index terms

This paper describes a drawing system that incorporates two novel interaction techniques based on analogies to physical tools. Power tools add limited autonomy in the form of rotators and movers for automated circular, linear, and Bezier-curve movement. Composite tools are user-constructed combinations of existing tools to create new functionality.

**Keywords**: drawing environments, tools

**18** Web search 1: Meta-recommendation systems: user-controlled integration of diverse recommendations

J. Ben Schafer, Joseph A. Konstan, John Riedl

November 2002 **Proceedings of the eleventh international conference on Information and knowledge management**

Full text available: pdf(429.18 KB) Additional Information: full citation, abstract, references, citings, index terms

In a world where the number of choices can be overwhelming, recommender systems help users find and evaluate items of interest. They do so by connecting users with information regarding the content of recommended items or the opinions of other individuals. Such systems have become powerful tools in domains such as electronic commerce, digital libraries, and knowledge management. In this paper, we address such systems and introduce a new class of recommender system called meta-recommenders. Meta- ...

**Keywords**: collaborative filtering, information filtering, recommender systems

**19** Papers: Bifrost inbox organizer: giving users control over the inbox

Olle Bälter, Candace L Sidner

October 2002 **Proceedings of the second Nordic conference on Human-computer interaction**

Full text available: pdf(173.69 KB) Additional Information: full citation, abstract, references, citings, index terms

Many email users, especially managers, receive too many email messages to read in the time available to them. The solutions available today often require programming skills on the part of the user to define rules for prioritizing messages or moving messages to folders. We propose a different approach: categorize messages in the inbox with predefined rules that do not require maintenance and are scalable to handle anything from 50 to thousands of messages.

**Keywords**: categorization, email, inbox, organize, prioritization

**20** Session 9A: applications in commerce: IntelliShopper: a proactive, personal, private shopping assistant

Filippo Menczer, W. Nick Street, Narayan Vishwakarma, Alvaro E. Monge, Markus Jakobsson

July 2002 **Proceedings of the first international joint conference on Autonomous agents and multiagent systems: part 3**

Full text available: pdf(383.25 KB) Additional Information: full citation, abstract, references, index terms

The IntelliShopper is a shopping assistant designed to empower consumers. It is a personal assistant in that it observes the users while shopping and learns their preferences with respect to various features that characterize shopping items. It is proactive in that it remembers the users' requests and autonomously monitors vendor sites for new items that might match the users' needs and preferences. Finally, it protects users' privacy by means of pseudonymity, IP anony\-mizing, and trusted filte ...

**Keywords**: learning, monitoring, personalization, privacy, pro-activity, shopping

Results 1 - 20 of 119 Result page: **1** 2 3 4 5 6 next

The ACM Portal is published by the Association for Computing Machinery. Copyright © 2004 ACM, Inc.
Terms of Usage Privacy Policy Code of Ethics Contact Us

Useful downloads: Adobe Acrobat QuickTime Windows Media Player Real Player